

Anti-MDMX Picoband Antibody

Catalog # ABO12558

Product Information

Application	WB, IHC-P
Primary Accession	O15151
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Protein Mdm4(MDM4) detection. Tested with WB, IHC-P in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4194
Other Names	Protein Mdm4, Double minute 4 protein, Mdm2-like p53-binding protein, Protein Mdmx, p53-binding protein Mdm4, MDM4, MDMX
Calculated MW	54864
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse
Subcellular Localization	Nucleus.
Tissue Specificity	Expressed in all tissues tested with high levels in thymus.
Source	Eukaryota
Protein Name	Protein Mdm4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MDMX (35-72aa KILHAAGAQGEMFTVKEVMHYLGQYIMVKQLYDQQEQH), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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Protein Information

Name	MDM4
Synonyms	MDMX
Function	Contributes to p53/TP53 regulation (PubMed: 32300648). Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding their transcriptional activation domains. Inhibits degradation of MDM2. Can reverse MDM2-targeted degradation of TP53 while maintaining suppression of TP53 transactivation and apoptotic functions.
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Expressed in all tissues tested with high levels in thymus

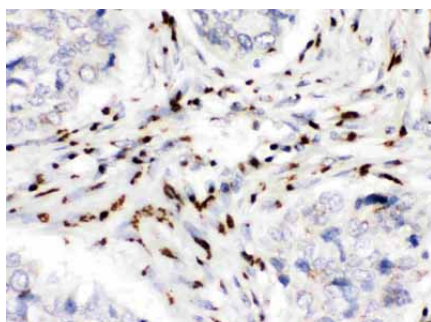
Background

Protein Mdm4 is a protein that in humans is encoded by the MDM4 gene. This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

Images



Western blot analysis of MDMX expression in mouse testis extract (lane 1) and 22RV1 whole cell lysates (lane 2). MDMX at 75KD was detected using rabbit anti- MDMX Antigen Affinity purified polyclonal antibody (Catalog # ABO12558) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.



MDMX was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- MDMX Antigen Affinity purified polyclonal antibody (Catalog # ABO12558) at 1 µg/mL. The immunohistochemical section was developed using SABC method.

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